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FIG. 1

>human Glycosyl Sulfotransferase 4 (huGST-4α) complete cDNA (ORF in capitals)
ggctcgagggtccactgtgctgaatgtaaagtctccattcagaaaagctcccagtggagactggcttctggagactctgtgtggcat
agagtgattcaaccaccttaagaagacacctggcttcctggaaacacagatgtcgagacatctccatggatttgtatcagcgttg
cagctccsagcaggcccggacggggccccagccgcgcgcATGTGGCTGCCACGGTTCTCCAGCA
AGACAGTGACAGTGCTCCTCTGGCACAGACCACCTGCCTCCTGCTCTTCATC
ATCTCCCGGCCAGGGCCCTCATCCCCAGCCGGCGGAGGATCGTGTGACGT
GCTGGTGCTGCTCGTGGCGCTCGGGCTCATCCTTCTTGGGCCAGCTCTCAG
CCAGCACCCGACGTCTTACCTGATGGAGCCCGTGGCATGTGTGGACCA
CCCTGTCGCAAGGGCAGCGCGAACGCTGCACATGGCGTGCACGACTGAT
GCGCTCTATCTTTGTGCGACATGGACGTGTTGATGCCTACATGCCACAGA
GCCGAAACCTGTCCGCCTTTCAACTGGCAACGAGCCGCGCTGTGCTCG
CCGCCCCTGCAGCGCCTTCCCCGAGGCACCATCAGCAAGCAGGACGTAT
GCAAGACACTGTGACCGCAGCCATTAGCCTGGCCCCGGAGGCCTGCCG
CTCCTACAGCACGTGGTGCCTCAAGGAGGTGCGCTTCAACCTGCAGGTGC
TCTACCCGCTGCTAGCGACCCCGCGCTAACCTGCGCATCGTGCACCTGGT
CGCAGCCCGGGCGTGCCTCGCTCCGGGAGGCCGGGGCCGATACTGG
CACCGACAACGGCATCGTGCCTGGCACCAACGGCAAGTGGTGGAGGCCGA
CCCTCACCTGCGCCTGATTCGCGAGGTGTGCCGAGCCACGTGCGCATGCCG
AGGCCGCCACACTCAAGCCGCCACCCCTCTGCCGCGCCGCTACCGCTGGT
CGCTCGAGGACCTGGCGGGAGCCGCTGGCAGAGATCCGCGCACTCTAEG
CCTCACCGGCCTGACCCCTACGCCACAGCTCGAGGCCTGGATCCACAACATC
ACCCACGGGTGGGATCGGCAAGCCAATCGAGGCCTCCATACTCGTCTAG
GAATGCGCGAACGTCTCCAGGCCTGGGCCACCGCGTGGCCCTCACTAAGA
TCCTGCGCGTGCAGGAGGTGTGCCGCGCGCTGCAGCTGCTGGCTACCG
GCCTGTGTACTCTGCGGACCAAGCAGCGTGACCTCACCCGGATCTGGTGTGC
CACGAGGCCAGACCACTCAGCTGGCATCGCCTGACTGA
Gaaactctggcccttagagc
aagccccgaactgtgtcgccaggcccaggaagcgactgcatggaaaaggagactggggcgcatgggaacaggccct
actatcaaccgggagttgggtccctccctgaagtaaggactgcacgttcttcctctgattctcggttttcctttagtctt
ctggagctgcctctcatcaggtgcacttcatggaaaagcaactcttgccttgcacccatcttgcgttgcggcgaggagtaagttactgc
taaattaaattaaatgtgtgccaggccgggtgcgtggctatgcctgtatcccacatgtgaaacccctctactaaaaatgc
cctgaggcaggattcaaaccaggccctggccaacatagtgaaacccctctactaaaaatgc
aaaaaaatgtccggcgtgggt
gcacactcctgtaatcccagctactttaggaggctgagggtggaaaatactggactccaaagggtggagggtgc
cagtaagctgaaatcatgccactgcaccctagcttgggtggcaaaagcaaaaactctatcaaaaaataattaaatgttca
aaaaaaaatgttcaaaagtccctgcccggaaaaaa (SEQ ID NOS. 03 & 04)

>human Glycosyl Sulfotransferase 4 (huGST-4α) translation of ORF from complete cDNA
MWLPFRSSKTVVLLAQTTCLLFIISRPGPSSPAGGEDR VHVLV LSSWRS GSSFLGQLFSQHPDVF
YLMEPAWHVWTTLSQGSAATLHMAVRDLMRSIFLCMDVFDAYMPQSRNLSAFFNWATSRALC
SPPACSAFP RGTISKQDVCKTLCTRQFSLAREACRSYSHVVLKEVRF FNILQVLYPLLS DPA NL RIV
HLVRDPRAVLR SREAAGPILARDNGIVLGTNGKWVEADPHLRLIREVC RSHVRIAEEAATLKPPPFLR
GRYRLVRFEDLAREPLAEIRALYAF TGLT LTPQLEAWIH NITHGSGIGKPIEAFHTSSRNARNVSQA
WRHALPFTKILRVQEVCAGALQLLG YRPVYSA DQQ RDLTLDLV LPRGP DHFSWASPD
(SEQ ID NO: 08)

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FIG. 2

>mouse Glycosyl Sulfotransferase 4 (huGST-4) complete cDNA (ORF in capitals)

ctcgagcaacttggcctactggaccacccgactgagcggctttgtgcgcctgggtgcgcagcagaagcgcagcggcagcgcaggccctagc
 cagaggATGCGGCTACCCGGTTCTCCAGCACTGTCATGCTTCGCTCCTGATGGTACAGACTGGC
 ATCCTGGTCTTCCGGTCTCCCGGCAAGTGCCATCGTCCCAGCAGGCCCTGGGGAGCGTGTGC
 ACGTGCTGGTACTGTCTCGTGGCGCTCGGCTCGTCTCGTGGCCAGCTCTCAGCCAACA
 CCCGATGTCTTCTACCTGATGGAGCCGGCTGGCACGTCTGGATACGTTGTCGAGGGCAGT
 GCCCCCGCACTCCACATGGCCGTGCGTGAACCTGATCCGCTCAGTGTCTCATGCGACATGGACG
 TATTGATGCCTACCTGCCCTGGCGCCGAAACATCTCGGATCTCTCCAGTGGCCGTGAGCCG
 CGCATTGTGCTCACCTCCGGTCTCGAAGCCTCGCTGGCAACATCAGCAGCGAGGAGGT
 GTGTAAGCCTCTGTGCGAACCGGCCCTCGGCTGGCTCAGGAAGCCTGCAGCTCCTATAG
 TCACGTCGTGCTCAAGGAGGTGCGCTTAAACCTACAGGTGCTCTACCCGCTGCTCAGCGAC
 CCTGCGCTCAACCTGCGATCGTGCACCTAGTGCACGGGACAATGGCATCGTCTGGTACCAACGGCACGTG
 GAGCAGACAGCCAAGGCCTGGCACGGGACAATGGCATCGTCTGGTACCAACGGCACGTG
 GGTGGAGGCGGACCCCGGCTGCGGTCAACGAGGTATGCCGAGCCATGTGCGCATCGC
 AGAGGCAGCCTGACAAGCCGCCCTTGTCAAGATCGTACCGCCTGGTGCCTACGA
 GGATCTGGCCGGGACCCACTCACCGTAATCCGTGAACCTATGCCTCACCGCCTGGTCTC
 ACGCCGAGCTCCAGACTTGGATCCACAATACACGCATGGTCAGGGCAGGCGCGCCGT
 GAAGCCTCAAGACCACATCCAGGGATGCGCTCAGTGTATCCCAGGCCTGGGCCACACGCTG
 CCCTTGCCAAGATTGCGGGTCCAGGAACTGTGCGGGGGTGCACTGCAGCTGCTGGTTAC
 CGGTCTGTGCATTGGAGCTTGAGCAAAGGGACCTCTCTGGACCTCTGCTGCCAAGAGGC
 ATGGACAGTTCAAGTGGCATCGTCCACGGAGAACGAAACCGGAATCTTAGaatttagggagagacca
 gctataacattaggctattggagtatgataaagaaggggctggagaacccaaaagcaagtagctggagtgatgtgatctgtctgtacttaggaagg
 atggagtc当地atcccacatctttctgtcagattgttagtttcgggttgttttagggatccccaactatcgatggaaagcaaaagctgt
 gccacttcctc当地atggcggccacttccactaaagacttcccttcgttactctcccttgc当地atccatgc当地atcgcaatcgcaagagaatgggtcc
 caggccctgcttggagtgccggaaaggccggctgtggctctaaatctgtgc当地atccctgc当地atccatgc当地atcgcaatcgcaatcgccac
 gccc当地atctc当地atccatcatagacttggacagttatggccctggtaaggaggaaaatgagacgatgttccctctgtgattctctgc当地atccatgc当地atcgcaatcgccac
 gggatccaggcacacacaaccatctggaggaggatggctttatgaaatctttgatggctaaaatgaaagatccatattatggaaataaacataaat
 atgctgc当地atccaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa (SEQ ID NOS: 01 & 02)

>mouse Glycosyl Sulfotransferase 4 (huGST-4) translation of ORF from complete cDNA

MRLPRFSSTVMLSLLMVQTGILVFLVSRQVPSSPAGLGERVHVLVLSSWRSGSSFVGQLFSQHPDV
 FYLMPEPAWHVWDTLSQGSAPALHMAVRDLIRSVFLCDMDVFDAYLPWRRNISDLFQWAWSRALC
 SPPVCEAFARGNISSEEVCKPLCATRPGLAQEACSSYSHVVLKEVRFNLQVLYPLLSDPALNLRIV
 HLVRDPRAVLRSEQTAKALARDNGIVLGTNGTWVEADPRLRVNEVCRSHVRIAEEAALHKPPP
 LQDRYRLVRYEDLARDPLTVIRELYAFTGLGLTPQLQTWIHNITHGSGPGARREAFKTTSRDALSVS
 QAWRHTLPFAKIRRVQELCGGALQLLGYRSVHSELEQRDLSLDLLLPRGMDSFKWASSTEKQPES
 (SEQ ID NO: 07)

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FIG. 3

>human GST-6 polypeptide fragment (translation of ORF)
MNRYNGAMMDVWDAHYKMFWDHHGNSPMASIQEAEQAAEFKKRWTQFVN
TFQMESTITRIAYVFYGPYINVSSCRFIDSSNPGLQISLNVNNT
EHVVSVITDYHNL
KTRFNYLGFGGFASVADQQQITRFLGLGTQAIVKPVRHDRIIFPGFKFNIAVGLILC
ISLVILTFQWRFYLFRKLMRWILILVIALWFIELLDVWSTCSQPICAKWTRTEAEG
SKKSLSSEGHMDLPDVVITSPLPGSGAEILKQLFFNSDFLYIRVPTAYIDIPELEI
DSFVDACEWKVSDIRSGHFRLLRGWLQSLVQDTKLHLQNIHLHEPNRGKLAQYF
AMNKDKKRKFKRRESLPEQRSQMKGAFDRDAEYIRALRRHLVYYP
SARPVLSLS
SGSWTLKLHFFQEVLGASMRALYIVRDPRAWIYSMLYN
NSKPSLYSLKNVPEHLA
KLFKIEGGKGKCNLNSGYAFYEPLRKELSKSKSNAV
SLLSHLWLANTAAALRIN
TDLLPTSYQLVKFEDIVHFPQKTTERIFAF
LGIPLSPASLNQILFATSTNLFYLPYEG
EISPTNTNVWKQNLP
RDEIKLIENICWTLM
DRLGYPKFMD (SEQ ID NO:09)

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FIG. 4A

(human GST4 β complete cDNA, ORF highlighted in capitals)

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ggcacgaggacgcgttggagcccttgctgagtcaggagagaggcgccccaccgtgccgtgcagctcgaa
cagagccccaagctttgggtgctgaggaaccttaatcatctccatggattgtatcagcggtgcagctcc
cagcagccctggacagtggccccagcagtcaGCATGTGGCTGCCCGCGTCTCAGCACAGCAGTGACCGCGCTCC
TCCTGGCGCAGACCTCCTCCTCTTCTGGTTTCCCAGGGCCAGGGCCCTCGTCCCCAGCAGGCGGAGGCGCGC
GTGCATGTGCTGGTGTCTCGTGGCGCTCGGGCTCGTCTCGTGGCCAACCTTCAACCAGCACCCGACGT
CTTCTACCTAATGGAGCCCGGTGGCACGTGTGGACCACCCGTGCGCAGGGCAGGCCAACGCTGCACATGGCTG
TGCACCTGGTGCCTCGTCTCGTGCACATGGACGTGTTGATGCCTATCTGCCCTGGCGCCGAACCTG
TCCGACCTCTTCAAGTGGCCGTGAGCCGTGACTGTGCTGCCACCCGCTGCACTGCCTTCCCCGAGGCGCAT
CAGCAGGAGGCCGTGCAAGCCACTGTGCGCGCCAGTCCTCACCTGGCCGGAGGCCTGCCGCTCCTACA
GCCACGTGGTGTCAAGGAGGTGCGCTTCAACCTGCAGGTGCTCTACCCGCTGCTCAGCGACCCCGCTCAAC
CTACGCATCGTGCACCTGGTGCACCGCGGGCGTGCTGCGCTCCGGAGCAGACAGCAAGGCTCTGGCGCG
TGACAAACGGCATCGTGTGGCACCAACGGCACGTGGTGGAGGCCGACCCGGCTGCGCGTGGTGCAGGTTGT
GCCGTAGCCACGTACGCATCGCGAGGCCGACACTCAAGCCGCCACCCCTTCTGCGCGGCCCTACCGCCTGGT
CGCTTGGAGGACCTGGCGGGAGCCGTGGCAGAAATCCGTGCGCTTACGCCTTCACTGGCTCAGTCTCACGCC
ACAGCTCGAGGCCTGGATCCATAACATCACCCACGGATCTGGACCTGGTGCACGCCGCGAAGCCTTCAAGACTCGT
CCAGGAATGCCTCAACGTCTCCAGGCCTGGCGCATGCGCTGCCCTTGCCAAGATCCGCCGCGTGCAGGAACCTG
TGCCTGGTGCCTGCAGCTGGCTACCGGCTGTGTACTCTGAGGACGAGCGAACCTCGCCCTTGATCT
GGTGCCTCACGGCTGAACGGCTTCACTGGCATCATCCACCGCTCGCACCCGAAATTAGtgaggccac
agttgttagcaggcgttaggcccggagggagtgcatggtcagagggggctggcgacggagaagcaggccct
atattgaccaaggagtgtgtgtacgaccctcccccactggagactgcacgtttctcttcttgc
attcttggtttccttgagtcctctggagctgcctctcatcaggtgcactctcatggaaagcaactcttgc
tgcctcctctggcacagggtgtcggtcagatgacttggtctactcaaggcttcttccccctggagaagaga

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FIG. 4B

(human GST4 β , translation of ORF)

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MWLPRVSSTAVTALLAQTFLLLFLVSRPGPSSPAGGEARVHVLVLSSWRSGSSFVGQLFNQHPDVFYLMEPAWHVWT
TLSQGSATLHMAVRDLVRSVFLCDMDVFDAYLPWRRNLSDFQWAWSRALCSPPACSAFPRAISSEAVCKPLCARQ
SFTLAREACRSYSHVVLKEVRFNLQVLYPLLSDPALNRLIVHLVRDPRAVLRSREQTAKALARDNGIVLGTNGTWVE
ADPGLRVREVCRSHVRIAEEATLKPPLFLRGRYRLVRFEDLAREPLAEIRALYAFTGLSLTPQLEAWIHNITHGSGP
GARREAFKTSSRNALNVSQAWRHALPFAKIRRVQELCAGALQLLGYRPVYSEDEQRNLALDLVLPRLNGFTWASSTA
SHPRN

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FIG. 5A

(human GST6 complete cDNA, ORF highlighted in capitals)

ATGCCTAAGGGAGGAGCTCCCCATGGATCATGGCGTTAATGTTACAGGACATTACTATTCTAGCATTATTGATG
TTGCTTCTACTTTGAGGAATCTGTGAGCAATTATTCCGAATGGGCAGTTTCACAGATGATAGATCAGTT
AAAACACAGAAAGTGAAGATTCAAGACCAACCAACAAAGCTGAAGAAAAGTATGCTTCATCCAAGTTATATTGAT
GCTGGAGAAATCCAAGCAATGAGACAAAAGTCTCGTGAAGCCATTGCATCTTTAGAGCTATCAGAAGTGCAGTG
ACAGTTATGCTGCCAACACAACATACTACCTACCTCCACCAAAGCATGCTGATTTGCTGCCAAGTGAATGAAATT
TATGGTAACAATCTGCCCTTAGCATTTGACTGTTATGCCAGAACAGAACAAAGTGCCTTGAATTGCTTG
GAATATGGACAGGATGGTGGCTACAAAGACTGGCTAGTAGAGAATGCACCAGGAGATGAGGTTCCAATTGGCCAT
TCCTTAACAGGTTTGCCTTGACTTTTATATAACTTATTAGATAATCATCGAAGACAAAAACACTGGAA
AAAATGGGTTATTACTGAGGAAATGTACGAGTATTCAAGGTGCTCATGGGCAACAGCTCTCCATAACCAC
CAAGCCACTAATATGATAGCATTACTCACAGGGGCTTGGTACTGGAGTAGATAAAGGATCTAAAGCAAATATG
AAACAGGCTGTAGTGGATGTCATGGAAAAGACAATGTTCTATTGAATCATATTGTTATGGTCTTGGATGAAGGT
GTGGCCTATGGAAGCTACACAGCTAAATCCGTACACAGTATGTTCTGGCCAGCGCCATTAAATATCAACAAAC
TTGGATAATAACTGGTTAAAGATGCACCTTGGTCTATTATGCCACCCCTTACCTGGCTTCAAAGAACTGTGGGT
ATAGCAGATTCCAATTATAATTGGTTATGGTCCAGAACGCCAGCTAGTTCTGGATAAGTCATCTTAAAGAAT
GGAGCTGAAATTGGTAGCTCAGCAAATTAGAACCGACCTAAAGATGGACCGATGGTCTTCAACTGCCAA
AGGTGGAGTACTCTCACACTGAATAACATCTGGTATGATCCCCAGCTCACACCACGCCACTGCTGATTATGGTACT
GCAAAACACACATCCCTAACTGGGTGTGGTTACTTATGGGCTGGTCCAAACACACAGACCAACACCTT
GTGTCTTAAATCTGGGAAGCTGGGGGACGAGCTGTGATGACATAGTCATTTCAGCCATATTCTGGATTGAT
GGGTGGAGAAGTTTAAACCAGGACATGAGCATCCAGACTCATTTACTTGGCCATGGACAAGTATT
GTTCTGAAGCTCTATGGACCCAAAGTTGAGCCACCTAACATGTATTGGTGTGGCTTAAGTGGACTGGCAGGAGGTGGTGTGCA
TGTAAATAAGCCCTGGGAAGGTCAACTGGGAGAATGTGCGCAGTGGCTTAAGTGGACTGGCAGGAGGTGGTGTGCA
GCTGGGAAATAATCACTGCCTCTCAACATGGGAAATGGTATTGACTGGGAGCGTCTGCTGTTATTCTCA
GCAATGAGACTGAAAAGTGTATATCGTCTTGCTCTTAAATTCCAAACTCTGCTAGTTGATCATATTGAG
AGGCAAGAAGATTCCCAATAAAATTCTGTCAGTGCCTCTTCATAATTGGATATTGATTAAATATATCCATAT
AAGTTTATGAATAAGGTATAATGGTGCATGATGGATGTGGGATGCAACATTACAAATGTTGGTTGATCATCAT
GGCAATAGTCCCCTGGCAGTACAGGAAGCAGAGCAAGCTGTAATTAAAAACGATGGACTCAATTGTTAAT
GTTACTTTCAAGTGAATCCACAATCACAAGATTGATATGCTTTATGGGCATATATCAATGCTCCAGCTGC
AGATTATTGATAGTCCAATCCTGGACTTCAGATTCTCTCAATGTCATAATACTGAACATGTTGTTCTATTGTA
ACTGATTACCATACCTGAAGACAAGATTCAATTATCTGGATTGGCTTGCAGTGTGGCTGATCAAGGCCAA
ATAACCGATTGGTTGGCACTCAAGCAATAGTAAAGCCTGTAAGACATGATAGGATTATTTCCTTGGATT
AAATTAAATAGCAGTTGATTAAATTGTCATAGCTGGTGTGATTAACTTCAATGGCTTTACCTTCA
TTTAGAAAACATGCGATGGATAATTAAACTTGTATTGCTTGTGGTTATTGAGCTTGGATGTTGGAGCACT
TGTAGTCAGCCCATTGTCAAAATGGACAAGGACAGAGGCTGAGGGAAAGCAAGAAGTCTTGTCTGAAGGCCAC
CACATGGATCTCTGATGTTGCTTACACTCAGTCCCTGGTCAAGGAGCTGAAATTCTCAAACAAACTTTTCAAC
AGTAGTGAATTCTCTACATCAGGGTCTACAGCCTACATTGATATTCTGAAACTGAGTTGGAAATCGACTCATTT
GTAGATGTTGTGAATGGAAGGTGTCAGATATCCGAGTGGCATTTCGTTACTCCGAGGCTGGTGCAGTCTTA
GTCCAGGACACAAAATTACATTGCAAAACATCCATCTGCATGAACCCAATAGGGTAAACTGGCCATATTGCA
ATGAATAAGGACAAAAAGAAAATTAAAAGGAGAGACTTGCAGAACAAAGAAGTCAAATGAAAGGCCCTT
GATAGAGATGCTGAATATATTAGGGCTTGAGGAGACACCTGGTTACTATCCAAGTGCACGTCCTGTGCTCAGTTA
AGCAGTGGAGCTGGACGTTAAAGCTCATTCTTCAAGGAGTTAGGAGCTGATGAGGGCATTGTACATAGTA
AGAGACCTCGGGCATGGATTATTCAATGTTACAATAGTAAACCAAGTCTTATTCTTGAAGAATGTACAGAG
CATTTAGCAAATTGTTAAAATAGAGGGAGGTAAGGCAATGTAACATTAAATTGGGTTATGCTTGTGAGTATGAA
CCATTGAGGAAAGAATTATCAAATCAAATGCACTGTCAGTGCCTTGTCTCAGTTGTGGCTAGCAAATACAGCA
GCAGCCTTGAGAATAACAGATTGCTGCCTACTAGTACCAAGCTGGTCAAGTTGAAGAATATTGTCATTCT
CAGAAAACACTGAAAGGATTGGCTTCTGGATTCCCTGTCTGCTAGTTAAACCAAAATATTGTTGCC
ACCTCTACAAACCTTTTACCTCCCTATGAAGGGGAAATATCACCAACTAATACTAATGTTGGAAACAGAACTTG
CCTAGAGATGAAATTAAACTAATTGAAAACATCTGCTGGACTCTGATGGATGCCCTAGGATATCCAAAGTTATGGAC
TAAatgctgcaggtcagcagaatttgcactaataacttaccaacccaaaaaaaaaaaaaaa

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FIG. 5B

(human GST-6, translation of ORF)

MPKGGAPPWIMALMFTGHLLFLALLMFAFSTFEESVSNYSEAWAVTDDIDQFKTQVKQDFRPNQKLKKSMLHPSLYFD
AGEIQAMRQKSRASHLHLFRAIRSAVTVMLSNPTYYLPPPQHADFAAKWNEIYGNNLPPLALYCLLCPEDKVAFEFVL
EYMDRMVGYKDWLVENAPGDEVPIGHSLTGATAFDFLYLNLDNHRRQKYLEKIWIWVITEEMYEYSKVRSGKQLLHNH
QATNMIAALLTGALVTGVVDKGSKANIWKQAVDVMEKTMFLLNHIVDGSLDEGVAYGSYTAKSVTQYVFQLAQRHFNINN
LDNNWLKMHFWFYATLLPGFQRTVGIAUDSNYWFYGPESQLVFLDKFILKNGAGNWLAQQIRKHRPKDGPMPVSTAQ
RWSTLHTEYIWYDPQLTPQPADYGTAKIHTFPNWGVVTYAGGLPNTQTNTFVSKSGKLGRGRAYDIVHFQPYSWID
GWRSFNPGEHEHPDQNSFTFAPNGQVFVSEALYGPKLSHLNVLVFAPS PSSQCNCKPWEGLGECAQWLWTGEEVDA
AGEIIITASQHGEVMFVSGEAVSAYSSAMRLKSVYRALLLNQSQTLLVVVDHIERQEDSPINSVS AFFHNLDIDFKYI PY
KFMNRYNGAMMDVWDAAHYKMFWDHHGNSPMASI QEAEQAAEFKKRWTQFVNVTFQMESTITRIAYVFYGPYINVSSC
RFIDSSNPGLQISLNVNNTEHVSVITDYHNLKTRFNYLGFGGFASVADQGQITRFLGLTQAIVKPV HDR II FPF GF
KFNIAVGLLICISLVI LT FQWRFYLSFRKLMRWI LIVL VIALWFIELLDVWSTCSQPICAKWTRTEAEGSKKSLSSEGH
HMDLPDVVITS LP GSGAEILKQLFFNSDFLYIRVPTAYIDIPETELEIDS FVDACEWKVSDIRSGHFRLLRGWLQSL
· VQDTKLHLQN IHLHEPNRGKLAQYFAMNKDKKRKF RRESLPEQR SQMKGAFDRDAEYIRALRRHLVY YPSARPV LSL
SSGSWTLKLHFFQEV LGASMR ALYIVRDPRAWIYI SML YNSKPSL YSLKNVPEHLAKLF KIEGGKGKCNLNSGYAF EYE
PLRKELSKSKSNAV SLLSHLW LANTAA ALRINT DLLPTSYQLVKFEDI VHF PKTTERI FAF LGIPLSPASL NQI LF A
TSTNLFYL PYEGE ISPTNT NVW QNLP RDEIKL IENICWTLM DR LGYPKFMD

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FIG. 6A

(mouse GST6 cDNA, ORF highlighted in capitals)

ATGGCGTTATGTTACAGAACATTACTATTTAACATTGATGATGTGTAGTTTCTACTGTGAAGAATCTGTG
 AGCAATTATTCTGAATGGCAGTTACAGACGATATAACATGGCTAACAGAAAATACAAGATTCAAAC
 AACCGAAGACTTCATCCAAATTATTTGATGCTGGAGATATAACAAACATTGAAACAAAAGTCTCGTACAAGGCAT
 TTGCATATTTAGAGCTATCAAAGTGCAGTGACAATTGCTGTCATACCTACACTACCTACCCAC
 CATGCTGAGTTGCTGCCAAGTGGAAATGAAATTATGTAATAATCTCCTCTTAGCATGTATTGTTATTATGC
 CCAGAAGACAAGGTTGCCATTGAATTGTTATGGAATACATGGATGGATGGTAGCTACAAAGACTGGCTAGTGAG
 AATGCACCAGGGATGAGGTTCCAGTGGCCATTCTAACAGGTTGCCACTGCCTTGACTTTATATAATCTA
 TTAGGTAATCAGCGTAAACAAAAACACTAGAAAAAATTGGATTGTTACTGAGGAATGTATGAATATTCCAAGATT
 CGATCATGGGCAAACAACCTCTCATAACCATAAGCTACAAATATGATAGCTTACTCATAGGGCCTGGTTACT
 GGAGTAGATAAAGGATCTAAAGCAAACATATGAAACAAGTTGTTGATGTGATGGAAAAGACTATGTTCTTG
 AAGCATATTGAGATGGCTATTGGATGAAGGTTGGCTATGGAAGCTACACTCAAATCAGTTACACAGTATGTT
 TTTTGGCACAAACGCCATTAAACATCAACAACTTGATAATAACTGGCTAAAATGCATTGGTTTATTATGCT
 ACACTTTGCCAGGCTATCAAAGAACTGTAGGCATAGCAGATTCAATTATAATTGGTTTATGGTCCAGAGGCCAG
 CTAGTTTCTGGATAAGTCATTACAGAAATGGAGCTGAAATTGGTTAGCTCAGCAAATTAGAAAGCATCGACCT
 AAGGATGGACCAATGGTCCTCCACTGCTCAGGGTGGAGTACTCTCATACTGAATACATCTGGTATGATCCAACA
 CTCACCCCCACAGCCTCTGGATTTGGCACTGCAAAATGACACACATTCTCTAATGGGTGTCGTGACTTATGG
 GGTGGCTGCCAACACCCAGACCAATACCTTGTCTTAAATCTGGAAACTGGGAGGACGAGCTGTATGAC
 ATAGTCACTTCACTGGCATATTCCCTGGATTGATGGATGGAGAAGCTTAACCCAGGACATGAACATCCAGATCAAAT
 TCATTACTTCGCTCTAATGGCAGGTATTGTTCTGAGGCTTTATGGACAAAATTGAGCCACCTTAACAC
 GTATTGGTGTGCCCATTACCATCAAGTCAATGTAATCAGCCCTGGGAAGGTCACACTGGGAGAATGTGCACAGTGG
 CTCAAGTGGACTGGGAAGAGGTTGGTATGCACTGGGAAGTTACTGCTGCTAACATGGTATAGGATGTT
 GTGAGTGGGAAGCAGTGTGCTTATTCTCTGCATGAGACTGAAAAGTGTATCGTCTTACTTCTTAAAT
 TCACAAACTCTGCTTGTGATCATATTGAAAGGCAAGAAACTTCCCAATAAATTCTGTCAGTGCTTCTTCA
 AATTGGATATTGATTAAATACATCCATACAAGTTATGAAATAGATATAATGGTCCATGATGGATGTGGAT
 GCACACTATAAAATGTTGGTTGATCACCATGGCAACAGTCCTGGCTAATATAACAGGAAGCAGAACAGGCTGCT
 GAATTAAAGAAACGGTGGACACAGTTGTTAATGTTACATTCTCATATGGAATCCACAATCACAAGAATTGCTTATGTA
 TTTTATGGCCATATGTCATGTTCCAGCTGCAAGATTGATAGTTCCAGTTCTGGACTTCAGATTCTTACAT
 GTCAACAGTACTGAACATAGTGTCTGTTGTAACTGACTATCAAACCTTAAAGCAGATTGAGCTTACCTGGATTT
 GGTGGTTTGCAGTGTGGCTAATCAAGGACAGATAACCGAGATTGGTTGGTACTCAAGAAATAGAAACCTGTA
 AGACATGATAAAAGTTAATTCCCTTGGTTAAATTAAATAGCAGTTGGATTCAATTGTTATTAGCTT
 ATTAAACTTCAATGGGGTTTACCTTCCCTTAAAGGCTAATGCGCTGTGTTAATGTTATTACCTC
 TGTTTATTGAGCTCTGGATGTGAGTACATGCACTCAGCCATCTGTCAGGAAATGGACAAGGACTGAAGCTAAG
 GCAAATGAGAAGTCATGATTCTGAAGGGCATCATGGATCTCTAATGTTATTACCTC
 GGAGCTGAAATTCTCAAACAGCTTTCAACAGCAGTGATTCTCTACATCAGAATTCCCTACAGCCTACATGGAT
 ATCCCTGAAACTGAATTGAAATTGACTCATTGAGATGCTTGTGAGTGGAAAGTATCAGATATCCGAGTGGC
 TTTCATCTTCTCGAGGGTGGCTGCAGTCTTGGTCCAGGATACAAACCTCACTGCAAACATCCATACATGAA
 ACCAGTAGGAGTAAACTGGCCAATATTACAACATAAGGACAAAAGCAGAAATTAAAAGAAGGGAGTCTTG
 CAAGATCAAAGAAGTGAATAAAAGGACATTGATAGAGATGCTGAATATAATTAGGGCTTAAGAAGACACCTGTT
 TATTACCCAAGTGCACGTCTGTGCTCAGCTTAAGTAGTGGTAGCTGGACATTGAAGCTTCAATTTCAGGAAGTT
 TTAGGAACCTCAATGCGGCATTGTCATAGTAAGAGACCCCTCGAGCTGGATCTTCACTGCTATATGGTAGTAA
 CCAAGTCTTATTGAAAGAATGTAACAGAGCACTTAGCAAATTGTTAAAATAGAGGAAGGTAAGCAGGAAATGT
 AATTGCAATTCTGGCTATGCTTTGAGTATGAATCACTGAAGAAAGAATTAGAAATATCCAATCAAATGCTATCTCC
 TTATTATCTCATTTGTTGGTAGCAAACACTGCAGCAGCCTGAGAATAAATACAGATTGCTGCTTACCAATTACCAT
 CTGGTCAAGTTGAAGATATTGTCATTCTCAGAACAGACTACTGAAAGGATTGGCTTCCATTGGCATTCTT
 TCTCCTGCTAGTTAAACCAAATGCTATTGCCACTCCACAAACCTTTATCTCCATATGAGGGGGAAATATCA
 CCATCTAATACTAATATTGGAAAACAAACTTGCTAGAGATGAAATTAAACTATTGAAAACATTGCTGGACACTG
 ATGGATCATCTAGGATATCAGAACATTGACTAatgtgcaggcgaaaatttgcactaatgtgtccaaacct
 actttgtggatataactagaactaaaaactttgttattcttgacatgtatgtgttagagtgagtgctgtgtcca
 gtatgttatttgcacagagatatttcaaaataggcaccatattgcctagcaggattttatgttaccactt
 ttcttgcttgcatttgcattttctgtcaattttttctgtcaatttttttttttttttttttttttttttttttt
 ggggtttatggacttaactcaacttcttggaaaactatttatctttaggacactcaaacactacaacggcct
 tgcaattgtgttatctgtcatctcgctttaatatggactacaaaactttatgtttgaaaacgtctaacat
 ttaccttgacacaaaaacgagaaataaaaaaccaaaaaattaaaaaaaaaaaaaaaaaaaaaaa

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIG. 6B

(mouse GST-6, translation of ORF)

MAFMFTEHLLFLTLMMCSFSTCEESVSNYSEWAFTDDIQWLKSQKIQDFKLNRRRLHPN
LYFDAGDIQTLKQKSRTSHLHIFRAIKSAVTIMLSNPSYYLPPPKAFAKWEIYGNN
LPPLALYCLLCPEDKVAFEFVMEYMDRMVSYKDWLVENAPGDEVPGHSLTGFATAF
DFLYNLLGNQRKQKYLEKIWIVTEEMYEYSKIRSWGKQLLHNHQATNMIALLIGALVT
GVDKGSKANIWKQVVVDVMEKTMFLKHIVD GSLDEGVAYGSYTSKSVTQYVFLAQR
HFNINNFDDNNWLKMHWFYATLLPGYQRTVGIADSNYNWFYGPESQLVFLLDKFILQN
GAGNWLAQQIRKHRPKDGPMPSTAQRWSTLHTEYIWYDPTLT PQQPVDFGTAKMHTF
PNWGVVTYGGGLPNTQTNTFSFKSGKLGGRAVYDIVHFQPYSWIDGWRSFNPGEHP
DQNSFTFAPNGQVFVSEALYGPKLSHLNNVLVFAPSPSSQCNCQPWEGQLGECAQWLKW
TGEEVGDAAGEVITA AQHGDRMFVS GEAVSAYSSAMRLKS VYRALLLN SQTLLVVDH
IERQETSPINSVS AFFHNLDIDFKYIPYKFMNR YNGAMMDVWD AHYKMFWDHHGN SP
VANIQUEAEQAAEFKKRWTQFVNVTFH MESTITRIAYVFYGPYVN VSSCRFIDSSSGLQIS
LHVNSTEHVS VVTDY QNLKSRFSY LGFGG FASV ANQGQITRFGLGTQEIVNPVRHD KV
NFPFGFKF NI AVGFILCISL VILT FQWRF YLSFRKLMRCV LILVIAL WFI ELLDVW STCT QPI
CAK WTR TEAKANE KVMISEGH HV DLPN VIITS LPGSGAEILKQLFFNSSDFLYIRIPTAYM
DIPETEFEIDSVDACEWKVSDIRSGHFHLLRGWLQSLVQDTKLHLQNIHLHETRSKLA
QYFTTNKDKKRKLKRRESLQDQRSRIKGPFDRDAEYIRALRRHLVYYP SARPVLSLSSGS
WTLKLHFFQEVLGTSMR ALYIVRD PRAWIY SVLYGSKPSLYSLKNVPEHLAKLFKIEEG
KSKCNSNSGYAF EYESLKKE LEISQSNAISLLSHLWVANTAAALRINT DLLPT NYHLVKF
EDIVHFPQKTTERIFAFLGIPLSPASLNQMLFATSTNLFYLPYE GEISPSNTNIWKT NLP RD
EIKLIENICWTLM DHLGYPKFMD

APPROVED O.G. FIG.
BY CLASS SUBCLASS
RAFTSMAN

FIG. 7

